**SUPPLIED BY WB0YLE and coped from email**

The Bill of Materials, which is the fastest way to do this is (although the bits and pieces are available, it becomes a treasure hunt…sometimes it’s just easier to get the whole thing in one place):

<https://www.hamradio.com/detail.cfm?pid=H0-016491> **ZUM Radio ZUMspot Kit W/1.3 OLED-2** **$139.95**

which  includes the radio, Raspberry Pi-1, preformatted Pi-Star memory chip operating system, antenna.

You also need a power supply (at least 3A @ 5V), the one that HRO sells is fine:

<https://www.hamradio.com/detail.cfm?pid=H0-016273> ZUMspot Power Supply-$16.95

# You don’t necessarily need a case, but they are available for purchase from HRO for $15 or so.

# You then need to make sure that you have a valid RadioID which you obtain (once validating your license) from

# <http://www/radioid.net>

# They will assign a  7-digit CCS7 ID, which is the prefix for your hotspot as well as the ID for your radio.  (for instance, mine is 314203001; radio ID of 3142030, hotspot is 3142030, unit 01)

# Register your callsign with <http://www.brandmeister.network> as a sysop.

# Once that is apportioned, you can then follow the configuration information at [www.pi-star-uk](http://www.pi-star-uk).

# There are literally dozens of radios available, from 50 watt mobiles from (at the high end) Motorola to the $50. HTs from Baofeng and the like.  They have to be DMR Tier 2 compliant (there are some that aren’t…Tier 2 is the operative word).

**Programming the radio is another issue that can be fraught with aggida, but, I’ve some documentation which goes into how to break it down simply; the concepts across the different brands is pretty much the same…sometimes the easiest thing is to find a current codeplug and modify it for your needs.**